PCT	For receiving Office use only
REQUEST	International Application No.  International Filing Date
The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty.	Name of receiving Office and "PCT International Application"
	Applicant's or agent's file reference (if desired) (12 characters maximum) UMDNJ RWJ 99-02
Box No. I TITLE OF INVENTION TAT-DERIVED OLICOUREA AND ITS METHOD OF PRODUC OF HIV-1 TAR RNA	TION AND USE IN HIGH AFFINITY AND SPECIFIC BINDING
Box No. II APPLICANT	
Name and address: (Family name followed by given name; for designation. The address must include postal code and name of address indicated in this Box is the applicant's State (that is, con	or a legal entity, full official features. The country of the untry) of residence if no State  This person is also inventor
of residence is indicated below.)  UNIVERSITY OF MEDICINE AND DENTISTRY	Telephone No.
335 George Street Suite 3200 New Brunswick, New Jersey 08903-2688	Facsimile No. (732) 235-9358
	Teleprinter No.

s also inventor. S 8 United States of America State (that is, country) of residence: State (that is, country) of nationality: United States of America United States of America the States indicated in the Supplemental Box the United States all designated States except the United States of America This person is applicant all designated of America only States for the purposes of: FURTHER APPLICANT(S) AND/OR (FURTHER) INVENTOR(S) Box No. III Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below.) This person is: applicant only RANA, Tariq M. applicant and inventor 22 Johanna Court Piscataway, New Jersey 08854 inventor only (If this check-box United States of America is marked, do not fill in below.) State (that is, country) of residence: State (that is, country) of nationality: United States of America United States of America the United States of America only the States indicated in the Supplemental Box all designated all designated States except the United States of America This person is applicant States for the purposes of: Further applicants and/or (further) inventors are indicated on a continuation sheet. AGENT OR COMMON REPRESENTATIVE; OR ADDRESS FOR CORRESPONDENCE Box No. IV The person identified below is hereby/has been appointed to act on behalf X agent common representative of the applicant(s) before the competent International Authorities as: Name and address: (Family name followed by given name; for a legal entity, full official designation. The address must include postal code and name of country.) Telephone No. (215) 563-4100 KLANN, Ellen M. Facsimile No. DANN, DORFMAN, HERRELL AND SKILLMAN 1601 Market Street (215) 563-4044 Suite 720 Teleprinter No. Philadelphia, Pennsylvania 19103 United States of America

Address for correspondence: Mark this check-box where no agent or common representative is/has been appointed and the

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	Box No.V DESIGNATION OF STATES					
	owing designations are hereby made under Rule 4.9(a) (m	ark	the app	plicable check-boxes; at least one must be marked):		
Regional Patent						
AP ARIPO Patent: GH Ghana, GM Gambia, KE Kenya, LS Lesotho, MW Malawi, SD Sudan, SL Sierra Leone, SZ Swaziland, TZ United Republic of Tanzania, UG Uganda, ZW Zimbabwe, and any other State which is a Contracting State of the Harare						
	EA Eurasian Patent: AM Armenia, AZ Azerbaijan, BY Belarus, KG Kyrgyzstan, KZ Kazakhstan, MD Republic of Moldova, RU Russian Federation, TJ Tajikistan, TM Turkmenistan, and any other State which is a Contracting State of the Eurasian Patent Convention and of the PCT					
	EP European Patent: AT Austria, BE Belgium, CH and LI Switzerland and Liechtenstein, CY Cyprus, DE Germany, DK Denmark, ES Spain, FI Finland, FR France, GB United Kingdom, GR Greece, IE Ireland, IT Italy, LU Luxembourg, MC Monaco, NL Netherlands, PT Portugal, SE Sweden, and any other State which is a Contracting State of the European Patent					
□ OA	Convention and of the PCT  OAPI Patent: BF Burkina Faso, BJ Benin, CF Central African Republic, CG Congo, CI Côte d'Ivoire, CM Cameroon, GA Gabon, GN Guinea, GW Guinea-Bissau, ML Mali, MR Mauritania, NE Niger, SN Senegal, TD Chad, TG Togo, and any other State which is a member State of OAPI and a Contracting State of the PCT (if other kind of protection or treatment desired, specify on dotted line)					
Nations	al Patent (if other kind of protection or treatment desired, spec	ify o	on dotte	ed line):		
□ AE	United Arab Emirates		LR	Liberia		
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4	-4:b:-b .i.ould be negotted under the P( 'I eycent 9n)	v ne	CIONAL	de above, the applicant also makes under Rule 4.9(b) all other ion(s) indicated in the Supplemental Box as being excluded in the supplemental box as being e		
1 ^	L Cabin eleterment. The emplicant declares that in		· annin	iubai ussibuations are ampiect to continumion and and sin-		
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Coope	Semental Box If the Supplem 100 ox is not used, this sheet should not be included the request.
l. lf. Undic	thi any of the Boxes, the space is injudient to furnish all the information: in such continuation of Box No"  The any of the Boxes, the space is injudient to furnish all the information: in such continuation of the Box in which the same manner as required according to the captions of the Box in which pace was insufficient, in particular:
(i)	if more than two persons are involved as applicants and/or inventors and no "continuation sheet" is available: in such case, write "Continuation of Box No. III" and indicate for each additional person the same type of information as required in Box No. III. The country of the address indicated in this Box is the applicant's State (that is, country) of residence if no State of residence is indicated below:
(ii)	in such case, write "Continuation of Box No. 11" or Continuation of Society and I such name, the State(s) (and/or, where (as the case may be), indicate the name of the applicant(s) involved and, next to (each) such name, the State(s) (and/or, where applicable, ARPO, Eurasian, European or OAPI patent) for the purposes of which the named person is applicant;
(iii)	if, in Box No. II or in any of the sub-boxes of Box No. III, the inventor or the inventor/applicant is not inventor for the purposes of all designated States or for the purposes of the United States of America: in such case, write "Continuation of Box No. II" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the "Continuation of Box No. III" or "Continuation of Boxes No. II and No. III" (as the case may be), indicate the name of the inventor(s) and, next to (each) such name, the State(s) (and/or, where applicable, ARIPO, Eurasian, European or OAPI patent) for the purposes of which the named person is inventor;
(iv)	if, in addition to the agent(s) indicated in Box No. II. there are further agents: in such case, write "Continuation of Box No. II." and indicate for each further agent the same type of information as required in Box No. II.
(v)	if, in Box No. V, the name of any State (or OAPI) is accompanied by the indication "patent of addition," or "certificate of addition," or "certification," or "certification," or "certification," or "certification," or "certification," or "certification," or "certificate of the name of the name of the name of the parent of the parent title or filing of the parent application.
(vi)	RAY NA VI and indicate for each additional curios approximation
(vii)	if, in Box No. VI, the earlier application is an ARIPO application: in such case, write "Continuation of Box No. VI", specify the number of the item corresponding to that earlier application and indicate at least one country party to the Paris Convention for the Protection of Industrial Property for which that earlier application was filed.
the s	If, with regard to the precautionary designation statement contained in Box No. V, the applicant wishes to exclude any State(s) from scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the scope of that statement: in such case, write "Designation(s) excluded from precautionary designation statement" and indicate the scope of that statement: in such case, write "Designation (s) excluded from precautionary designation statement and indicate the scope of the statement of the scope of the sc
AIE^	lf the applicant claims, in respect of any designated Office, the benefits of provisions of the national law concerning non-prejudicial losures or exceptions to lack of novelty: in such case, write "Statement concerning non-prejudicial disclosures or exceptions to lack ovelty" and furnish that statement below.
9	CONTINUATION OF BOX IV
T	DORFMAN, John C.
	HERRELL, Roger W.
	SKILLMAN, Henry H.
	PIPER, Jr., Donald R.
	PACE, Vincent T.
	HAGAN, Patrick J.
	REED, Janet E.
	All above attorneys are of the firm of DANN, DORFMAN, HERRELL AND SKILLMAN. Address of all is indicated in Box IV.
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Box No. VI PRIORITY CL	AIM	Further prio	rity claims are indicated	in the Supplemental Box.
Filing date	Filing date Number Where earlier application is:		ion is:	
of earlier application (day/month/year)	of earlier application	national application:	regional application:*	
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X The receiving Office is requ	ested to prepare and trans	smit to the International Bu	reau a certified copy	
of the earlier application(s)  purposes of the present inte	) (only if the earlier appli ernational application is th	cation was filed with the he receiving Office) identif	Office which for the lied above as item(s):	(1)
Where the earlier application is a Convention for the Protection of Ind	n ARIPO application, it is m	andatory to indicate in the Su	pplemental Box at least on	e country party to the Paris
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Box No. VIII CHECK LIST				
This international application co the following number of sheets	·	al application is accompar	iled by the item(s) mark	ed below:
request : 4	1. M lee calcu	•		
description (excluding	, —	signed power of attorney		
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Box No. IX SIGNATURE C Next to each signature, indicate the name	OF APPLICANT OR AC	GENT	ar Of much consider in mot obvi	love from reading the request)
Next to each signature, indicate the nan	ne oj ine person signing ana ine	capacity in which the person sign	15 (l) Such capacity is not over	ous from remaing and roquesty.
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Agent for Applicant				
For receiving Office use only				
1. Date of actual receipt of the purported 2. Drawings:				
international application:				
3. Corrected date of actual receipt due to later but				
timely received papers or drawings completing the purported international application:				
4. Date of timely receipt of the required orrections under PCT Article 11(2):				
5. International Searching Auth (if two or more are competer	nority TO A /	6. Transmitt	al of search copy delaye	ed
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Form PCT/RO/101 (last sheet) (J	uly 1998; reprint January	2000)	S	ee Notes to the request form

Sheet No. ... 4...

This sheet is not part of and does not count as a sheet of the international application.

## For receiving Office use only FEE CALCULATION SHEET International application No. Annex to the Request Applicant's or agent's Date stamp of the receiving Office file reference Applicant UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW JERSEY CALCULATION OF PRESCRIBED FEES 240.00 T 1. TRANSMITTAL FEE . . . . . 700.00 S 2. SEARCH FEE . . . . International search to be carried out by (If two or more International Searching Authorities are competent in relation to the international application, indicate the name of the Authority which is chosen to carry out the international search.) 3. INTERNATIONAL FEE **Basic Fee** The international application contains 427.00 10.00 additional amount remaining sheets В 427.00 Add amounts entered at b1 and b2 and enter total at B . Designation Fees The international application contains 5 designations. 92.00 460.00 amount of designation fee number of designation fees payable (maximum 8) 887.00 I Add amounts entered at B and D and enter total at I . . . . (Applicants from certain States are entitled to a reduction of 75% of the international fee. Where the applicant is (or all applicants are) so entitled, the total to be entered at I is 25% of the sum of the amounts entered at B and D.) P 15.00 4. FEE FOR PRIORITY DOCUMENT (if applicable) 5. TOTAL FEES PAYABLE . . . . . . . . . . . . . . . 842.00 Add amounts entered at T, S, I and P, and enter total in the TOTAL box TOTAL The designation fees are not paid at this time. MODE OF PAYMENT authorization to charge coupons XX bank draft deposit account (see below) other (specify): cash cheque postal money order revenue stamps DEPOSIT ACCOUNT AUTHORIZATION (this mode of payment may not be available at all receiving Offices) is hereby authorized to charge the total fees indicated above to my deposit account. The RO/ US (this check-box may be marked only if the conditions for deposit accounts of the receiving Office so permit) is hereby authorized to charge any deficiency or credit any overpayment in the total fees indicated above to my deposit account. is hereby authorized to charge the fee for preparation and transmittal of the priority document to the International Bureau of WIPO to my deposit account. 25 January 2000 04 - 1406Date (day/month/year) Deposit Account No. Ellen M. Klann, Ph.D.

## GENERAL POWER OF ATTORNEY

(for several international applications filed under the Patent Cooperation Treaty)
(PCT Rule 90.5)

The undersigned person(s): (Family name followed by given name; for a legal entity name of country.)	ty, full official designation.	The address must include postal code and
L. M. Stephenson, Ph.D. Director of Patents and Licensing UNIVERSITY OF MEDICINE AND DENTISTRY OF NEW 30 Bergen Street Newark, New Jersey 07107 United States of America		
hereby appoint(s) the following person as:	🛛 agent	common representative
Name and address (Family name followed by given name; for a legal entity name of country.)	ty, full official designation.	The address must include postal code and
DORFMAN, John C. HERRELL, Roger W. SKILLMAN, Henry H. HAGAN, Patrick J. PIPER, Jr., Donald R. PACE, Vincent T. REED, Janet E. RIGAUT, Kathleen D.		
DANN, DORFMAN, HERRELL AND SKILLMAN 1601 Market Street Suite 720 Philadelphia, Pennsylvania 19103-2307 United States of America		
to represent the analysis are	I all the competent Intellibrian Intellibrian Intellibrian I Search	
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in connection with any and all international Office	al applications filed by	the undersigned with the following
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as receiving Office and to make or receive	payments on behalf of	the undersigned.
Signature(s) (where there are several persons, eac person signing and the capacity in which the person s	igns, if such capacity is not	each signature, indicate the name of the obvious from reading this power):
UNIVERSITY OF MEDICINE AND DENTISTS	RY OF NEW JERSEY	
L.M Stephenson, Ph.D. Director of Patents and Licensing		<b>-</b>
Date: 8 October 199	9	<del></del>
Form PCT/Model of general power of attorney	y (for several internati	onal applications) (July 1992)